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SOVIET PRODUCTION OF HYDROTURBINES, STEAM TURBINES FOR GES, INDUSTRY

BIG UNITS GO TO VARIOUS GES -- Moscow, Trud, 14 Aug 52

A giant SVK-150 turbine, built by the Leningrad Metal Plant imeni Stalin,  
 is now in operation at the Tsimlyanskaya GES.

Baku, Bakinskiy Rabochiy, 2 Sep 52

The Leningrad Metal Plant imeni Stalin has completed another hydroturbine  
 for the Mingechaurskaya GES.

Moscow, Trud, 16 Oct 52

The Leningrad Metal Plant imeni Stalin has completed the assembly of two  
 turbines pledged for completion by 7 November, and has begun the assembly of  
 a third.

The plant's hydroturbine shop is completing an order for the Mingechaurs-  
 skaya GES. It is also filling orders from the Kama, Gorkiy, and other hydro-  
 electric stations.

Leningradskaya Pravda, 28 Oct 52

The turbine-generator sets which the Leningrad Metal Plant imeni Stalin  
 is working on for the Kuybyshevskaya GES will be 40 meters high. The turbine  
 alone will weigh 1,600 tons; its rotor will be 14 meters in diameter. The  
 entering opening of the spiral chamber will be 24 meters in diameter. The  
 six-bladed runner will weigh 400 tons, and must be strong enough to sustain  
 a pressure of over 2,000 tons.

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Leningradskaya Pravda, 26 Oct 52

The turbines which the Leningrad Metal Plant imeni Stalin is building for the Kamskaya GES will have common shafts with the generators to which they will be coupled. This will reduce the weight and size of the aggregates by one third. Dozens of tons of metal will be saved for the entire series of machines.

Moscow, Izvestiya, 28 Feb 53

A 100-kilowatt steam turbine built by the Leningrad Metal Plant imeni Stalin has just passed its plant tests successfully.

In the completion of the turbine ahead of schedule, the efforts of the blade shop were of particular importance; here the entire set of rotor blades was completed 5 days before the target date.

KHAR'KOV TO CONTRIBUTE SIX TURBINES -- Kiev, Pravda Ukrainy, 8 May 53

The turbines for the Kakhovskaya GES are being designed by engineers of the Leningrad Metal Plant imeni Stalin. They will be built by the Khar'kov Turbogenerator Plant imeni Kirov.

The five primary turbines and the single secondary turbine will each have a 53,500-kilowatt capacity.

PRODUCE BLADE CASTINGS -- Moscow, Moskovskaya Pravda, 14 Aug 52

The Elektrostal' Novo-Kramatorskiy Plant is continuing to cast the blades for the hydroturbines slated for installation in the hydroelectric stations going up along the Volga. The steel founders are pledged to complete 20 blades by the end of August.

Moscow, Moskovskaya Pravda, 22 Nov 52

The Elektrostal' Novo-Kramatorskiy Plant has contributed a considerable amount of equipment to power installations. Series production of ball mills for heat and power plants has been established, while sluice mechanisms and hoists have been built for power stations. The plant is furnishing hydroturbine builders with such important parts as blades. The plant cast the blades for turbines for the Svirskaya, Shcherbakovskaya, and Tsimlyanskaya GES.

The plant's foundry is now preparing to cast the blades for the hydro-turbines to be installed at the Kuybyshevskaya GES.

Technological advances at the plant have been considerable. A new method of making molds for turbine blades has shortened casting operations: whereas formerly six blades were cast in a month, now ten to 12 are cast in the same period. This method makes it possible, furthermore, to use large melting aggregates, so that three to four small blades may now be cast from a single melt.

A special quick-hardening solution, now used in finishing the molds, has made it possible to shorten the cycle of casting both small and large blades by 12 hours.

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There are, however, still a number of shortcomings in the operation of the plant. Foremost is the uneven production pace of several of the shops, especially machine and assembly shop No 1, and the reduction mechanism shop. Equipment is still utilized inadequately, and defective items are still coming from preparatory shops. Efforts are being made, however, to overcome these irregularities. -- A. Kondratskiy, director, Elektrostal' Novo-Kramatorskiy Plant imeni Stalin

Kiev, Pravda Ukrainy, 26 Apr 53

The Elektrostal' Novo-Kramatorskiy Plant has cast the first blade for the Kuybyshevskaya GES hydroturbine. Approximately 40 tons of molten metal were required for the casting.

COMPLETE CASTINGS EARLY -- Riga, Sovetskaya Latvija, 17 Sep 52

The Leningrad Nevskiy Plant imeni Lenin completed three 14-ton castings for the Gor'kovskaya GES 2 weeks ahead of schedule.

EXCEED PLAN IN OUTPUT OF NEW PRODUCT -- Vil'nyus, Sovetskaya Litva, 19 Sep 52

The Kaunas Pergale Plant produces steam turbines for use in the petroleum industry. Since the plant completed its first turbine in January 1951, it has sent dozens of turbines to various places throughout the country.

Minsk, Sovetskaya Belorussiya, 5 Oct 52

The Kaunas Pergale Plant has produced several steam turbines above plan since the beginning of 1952.

Vil'nyus, Sovetskaya Litva, 5 Oct 52

The Kaunas Pergale Plant has turned out an OR-300 turbine in excess of the plan.

Vil'nyus, Sovetskaya Litva, 2 Nov 52

In September 1952, the Kaunas Pergale Plant established production of the new OK-500 turbine, and completed the parts for all other turbines scheduled for completion, ahead of schedule.

Especially good work is being done by two Stakhanovites in boring turbine rotor disks on a DIP-500 lathe.

SEND HEAVY PARTS -- Yerevan, Kommunist, 22 Sep 52

The Novo-Kramatorsk Plant imeni Stalin has sent the Leningrad Metal Plant imeni Stalin the last parts for the assembly of the Mingechaurskaya GES turbines. The plant has already contributed three stators, runners, and shafts, as well as other basic parts for the Mingechaur hydroturbines.

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Alma-Ata, Kazakhstanskaya Pravda, 22 Oct 52

The Novo-Kramatorsk Plant imeni Stalin has turned out some unique runners for the hydroturbines to be installed at the Ust'-Kamenogorskaya GES. Each runner, weighing 90 tons, was cast in two parts and then reinforced. The plant has also completed some turbine shafts for the GES. In the forging of each shaft, from 120-ton ingots, a saving of 20 tons of metal was realized.

Moscow, Izvestiya, 18 Apr 53

The Novo-Kramatorsk Plant imeni Stalin has been given the task of turning out ten stators for the Kuybyshevskaya GES project this year. The pattern shop has already completed its patterns of the stator segments and sent them to the shaped castings shop. The foundry has pledged completion by 1 May of all segments from which the first stator will be welded.

Vil'nyus, Sovetskaya Litva, 26 Apr 53

The Novo-Kramatorsk Plant imeni Stalin has completed the casting of the first stator for a Kuybyshevskaya GES hydroturbine. This gigantic part, weighing over 200 tons, consists of 16 sectors and eight columns each 4.5 meters high. These parts will be welded together to make the whole unit.

Making the molds for the component parts, and pouring them, took 15 working days. The molding procedure constituted a departure from the methods followed in turning out the molds for the parts of the hydroturbines for the Dneprovskaya and Tsimlyanskaya GES: instead of patterns, strickles were used.

Recently, the plant's shaped castings shop turned out the second 100-ton sleeve for the hydroturbine runner.

YEREVAN PLANT FOLLOWS UNEVEN WORK SCHEDULE, EXCEEDS QUOTAS IN 1953 -- Yerevan, Kommunist, 18 Nov 52

The Yerevan Small Hydroturbines Plant produces 70-75 percent of its items in the second half of each month.

Leningradskaya Pravda, 28 Apr 53

The Yerevan Small Hydroturbines Plant recently sent to its finished products stock 16 vortical propeller pumps and 20 centrifugal pumps, all in excess of the daily quota. The daily hydroturbine-assembly quota was also exceeded by a considerable amount. Such outstanding indexes have been the daily rule at the plant during the current pre-May Day effort.

Among the 1953 achievements of the plant are the establishment of series production of 130- and 820-kilowatt turbines, designed for rural electrification projects. The first consignment of these machines has already been shipped out to power stations being built in the Georgian and Azerbaydzhani SSRs, and to Central Asia.

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